

Title (en)

Endface gap sealing of steam turbine bucket tip static seal segments and retrofitting thereof

Title (de)

Statische Dichtung für Laufschaufelspitzendichtung einer Dampfturbine

Title (fr)

Joint d'étanchéité entre éléments statiques d'un système d'étanchéité pour les extrémités d'aubes mobiles de turbine de vapeur

Publication

**EP 1387044 A3 20051026 (EN)**

Application

**EP 03254741 A 20030729**

Priority

US 20738502 A 20020730

Abstract (en)

[origin: EP1387044A2] Spline seals (64, 66, 68) are disposed in circumferentially registering slots (60, 62, 63) of adjacent arcuate seal strip segments disposed in grooves (31, 37, 44) of diaphragm assemblies of a steam turbine in radial opposition to the rotating tips (24) of the buckets (22). The spline seals extend in the gaps between the endfaces of the segments and minimize or preclude steam leakage past the endfaces. The spline seals are disposed in slots which may be formed as part of original equipment manufacture or may be machined in segments with the spline seals provided as retrofits. <IMAGE>

IPC 1-7

**F01D 11/08**

IPC 8 full level

**F01D 11/00** (2006.01); **F01D 11/02** (2006.01); **F01D 11/08** (2006.01); **F01D 25/00** (2006.01)

CPC (source: EP US)

**F01D 11/005** (2013.01 - EP US); **F01D 11/02** (2013.01 - EP US); **F01D 11/08** (2013.01 - EP US); **F05D 2230/642** (2013.01 - EP US); **F05D 2240/40** (2013.01 - EP US)

Citation (search report)

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**EP 1387044 A2 20040204**; **EP 1387044 A3 20051026**; CN 100554648 C 20091028; CN 1475656 A 20040218; JP 2004060660 A 20040226; US 2004022626 A1 20040205; US 6722846 B2 20040420

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